

DATE IN 11/22/99	SUSPENSE 12/13/99	ENGINEER DC	LOGGED BY MV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -
2040 South Pacheco, Santa Fe, NM 87505



2536

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

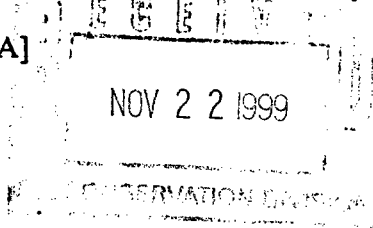
Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

[Signature]

Print or Type Name

Signature

Title

Date

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator	Address		
San Juan 27-4 Unit	44F	J 18-27N-04W	Rio Arriba
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
Spacing Unit Lease Types: (check 1 or more)			
OGRID NO.	14538	Property Code	7452
API NO.	30-039-25940	Federal	x
State	(and/or)	Fee	

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion
3. Type of production (Oil or Gas)	gas		gas
4. Method of Production (Flowing or Artificial Lift)	flowing		flowing
5. Bottomhole Pressure	(Current) a. 506 psi (see attachment)	a.	a. 729 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current	(Original) b. 1384 psi (see attachment)	b.	b. 2271 psi (see attachment)
Gas & Oil - Flowing: Measured Current			
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity (API) or Gas BTU Content	BTU 1182		BTU 1209
7. Producing or Shut-In?	shut in		shut in
Production Marginal? (yes or no)	no		yes
* If Shut-In and oil/gas/water rates of last production	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give data and oil/gas/water rates of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ Yes ☒ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____ attached

16. ATTACHMENTS:

- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE: Production Engineer

DATE: 11-15--99

TYPE OR PRINT NAME: Wayne Fletcher

TELEPHONE NO.: (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form
Revised February 21,
Instructions on
Submit to Appropriate District
State Lease - 4 ()
Fee Lease - 3 ()

☐ AMENDED REF

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25940		Pool Code 72319/71599		Pool Name Blanco Mesaverde/Basin Dakota	
Property Code 7452		Property Name SAN JUAN 27-4 UNIT			Well Number 44F
GRID No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			Elevation 6622'

10 Surface Location

UL or lot no. J	Section 18	Township 27N	Range 4W	Lot 100	Feet from the 1565	North/South line SOUTH	Feet from the 1950	East/West line EAST	Cont. RI ARR
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 100	Feet from the	North/South line	Feet from the	East/West line	Cont.
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Dedicated Acres MV-E/320, DK-E/320				Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

1		5287.26'		17 OPERATOR CERTIFICATION I hereby certify that the information contained on this plat is true and correct to the best of my knowledge and belief. Signature: <u>Peggy Bradfield</u> Printed Name: <u>Peggy Bradfield</u> Regulatory Administrator Title: <u>5-10-99</u> Date: <u>5-10-99</u>	
2		NMSF-080669		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was located from field notes of actual surveys or under my supervision and that the same is correct to the best of my belief. Date of Survey: <u>AUGUST 12, 1998</u> Signature and Seal: <u>C. EDWARDS</u> Professional Surveyor No. <u>6857</u> Certificate Number: <u>6857</u>	
3		FEE 1950'			
4		NMSF-080669			
5280.00'		5291.22'			

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

Mary Chappell
PO Box 1865
Corrales, NM 87048

x

Harco Ltd. Partnership
PO Box 216
Roswell, NM 88202-0216

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

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SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

James V. Harrington
PO Box 13535
Albuquerque, NM 87192

x

Tempe Ltd. Partnership
c/o F.E. & M.K. Harrington
652 Fearrington Post
Pittsboro, NC 27312

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RESOURCES

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3535 East 30th Street: (87402-8801)
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x

San Juan 27-4 Unit #44F

Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.685	GAS GRAVITY	0.707
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.28	%N2	0.48
%CO2	0.79	%CO2	0.85
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6041	DEPTH (FT)	7967
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	435	SURFACE PRESSURE (PSIA)	598
BOTTOMHOLE PRESSURE (PSIA)	505.5	BOTTOMHOLE PRESSURE (PSIA)	729.0
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.685	GAS GRAVITY	0.707
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.28	%N2	0.48
%CO2	0.79	%CO2	0.85
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6041	DEPTH (FT)	7967
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1167	SURFACE PRESSURE (PSIA)	1808
BOTTOMHOLE PRESSURE (PSIA)	1383.7	BOTTOMHOLE PRESSURE (PSIA)	2270.5

San Juan 27-4 #44F

Mesaverde Offset

	<u>Date</u>	<u>Pressure</u>
SAN JUAN 27-4 UNIT 121	1974- 12- 10	1,167
SAN JUAN 27-4 UNIT 121	1974- 12- 19	1,360
SAN JUAN 27-4 UNIT 121	1975- 05- 30	969
SAN JUAN 27-4 UNIT 121	1976- 06- 25	680
SAN JUAN 27-4 UNIT 121	1977- 07- 6	574
SAN JUAN 27-4 UNIT 121	1978- 08- 2	629
SAN JUAN 27-4 UNIT 121	1978- 09- 6	0
SAN JUAN 27-4 UNIT 121	1978- 09- 7	627
SAN JUAN 27-4 UNIT 121	1979- 03- 6	677
SAN JUAN 27-4 UNIT 121	1980- 10- 2	571
SAN JUAN 27-4 UNIT 121	1981- 11- 3	654
SAN JUAN 27-4 UNIT 121	1982- 04- 30	494
SAN JUAN 27-4 UNIT 121	1984- 05- 3	626
SAN JUAN 27-4 UNIT 121	1986- 04- 18	664
SAN JUAN 27-4 UNIT 121	1989- 09- 4	799
SAN JUAN 27-4 UNIT 121	1991- 03- 18	518
SAN JUAN 27-4 UNIT 121	1991- 03- 19	603
SAN JUAN 27-4 UNIT 121	1993- 05- 3	435

San Juan 27-4 #44F

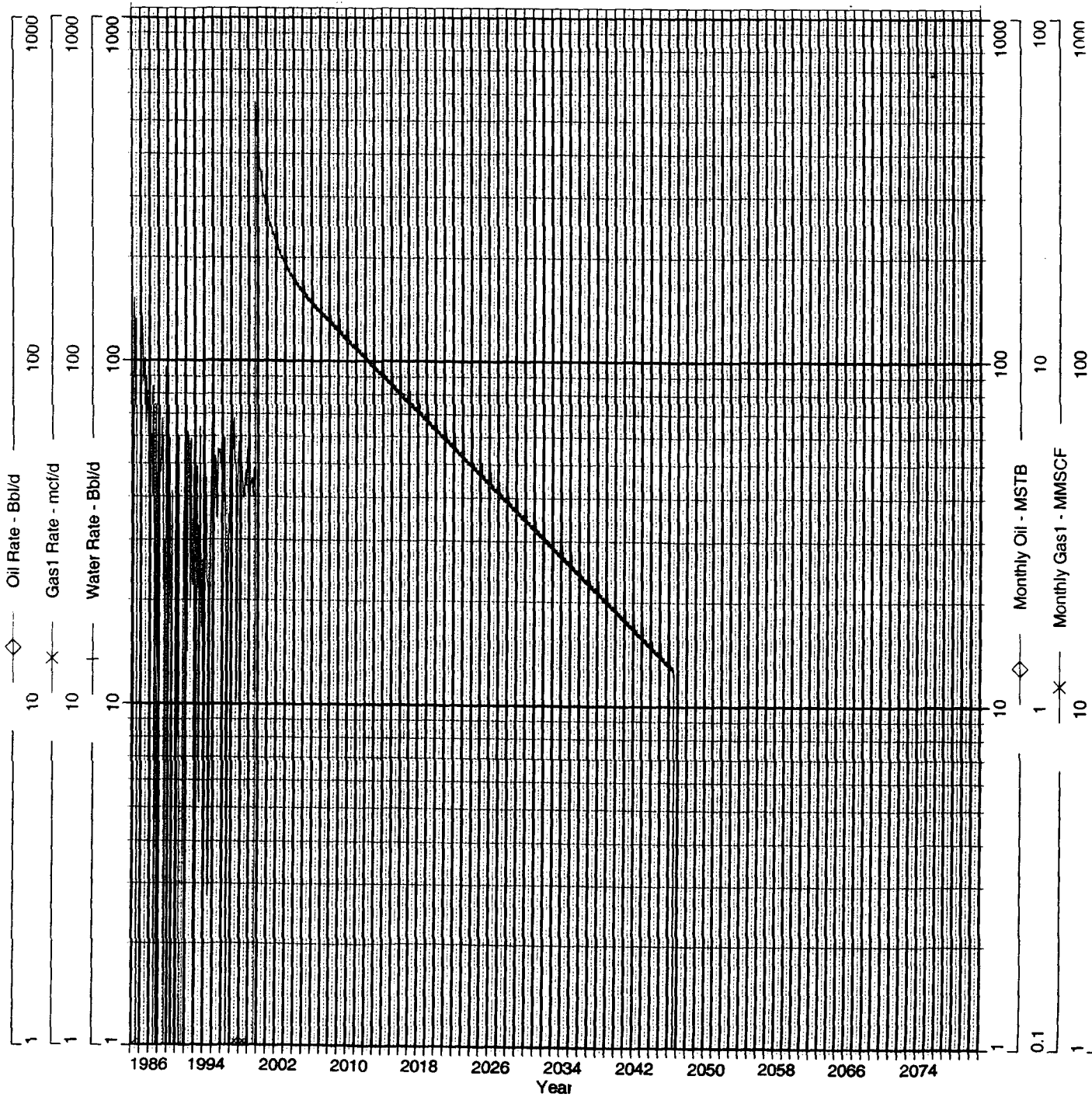
Existing Dakota

	<u>Date</u>	<u>Pressure</u>
SAN JUAN 27-4 UNIT 44F	1998- 08- 22	1,808
SAN JUAN 27-4 UNIT 44F	1999- 10- 18	598

San Juan 27-4 Unit #44F

Blanco Mesaverde

Expected Production Curve



San Juan 27-4 Unit #44F

Basin Dakota

Actual Production Curve

